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(71) Applicant: MITSUI PETROCHEM IND LTD

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TABATA HOMARE (74) Representative:

(72) Inventor: AZUMA YASUSUKE

(54) PRODUCTION OF TAXANE-TYPE DITERPENE

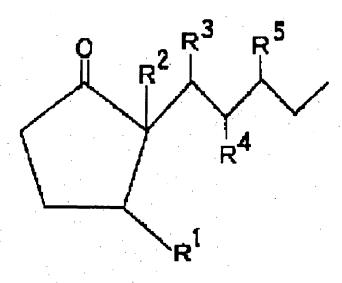
(57) Abstract:

PURPOSE: To obtain a taxane-type diterpene in high productivity useful as treating agent, etc., for ovarian cancer, breast cancer, lung cancer, etc., by culturing plant tissue or cells capable of producing a taxane-type diterpene in the presence of an amine and recovering the product from the cultured material and medium.

CONSTITUTION: Tissue and/or cells (e.g. callus) of a plant (e.g. Taxus baccata) producing a taxanetype diterpene is cultured in the presence of an amine (e.g. spermidine) and a jasmonic acid expressed by the formula [R1 is a 1-4C alkyl or a group of the formula (CH2)nCOR6 [R6 is OH, OM (M is an alkali metal, an alkaline earth metal or NH4), NHR7 (R7 is H, a 1-4C acyl, a 1-4 alkyl or an amino acid residue), OR8 (R8 is a 1-4C alkyl or a carbohydrate residue); n=1-7]; R2 to R5 are each H or adjacent two groups together form a double bond. The product is recovered from the cultured material and/or the cultured medium to obtain the objective taxane-type diterpene (e.g. taxol), which is useful as treating agent for

bvarian cancer, breast cancer, lung cancer, etc.

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위Title:

JP8056681A2: PRODUCTION OF TAXANE-TYPE DITERPENE

② Country:

JP Japan

§ Inventor:

AZUMA YASUSUKE: **TABATA HOMARE:**

PAssignee:

MITSUI PETROCHEM IND LTD

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Aug. 25, 1994 JP1994000201151

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8 Designated Country:

CA CN EP KR US DE FR GB IT NL

PFamily:

PDF	<u>Publication</u>	Pub. Date	Filed	Title
æ	WO9514103A1	May 26, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	US20020012976A1	Jan. 31, 2002		METHOD OF PRODUCING A TAXANE- TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DILTERPENE AT A HIGH RATE
	US6403343B2	June 11, 2002		



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23	<u>US6403343</u>	June 11, 2002	April 28, 1999	Mend of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type dilterpene at a high rate
23	<u>US5968789</u>	Oct. 19, 1999	Feb. 28, 1997	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
23	<u>US5637484</u>	June 10, 1997	July 14, 1995	Method of producing a taxane-type diterpene and a method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
L	KR0172606B1	Feb. 1, 1999	July 5, 1995	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169081B1	Jan. 15, 1999	June 18, 1998	METHOD OF HARVESTING CULTURED CELLS CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD
	KR0169080B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	KR0169079B1	Jan. 15, 1999	June 18, 1998	PROCESS FOR PRODUCING TAXANE DITERPENE
	JP8116981A2	May 14, 1996	Oct. 18, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
L	JP8056681A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	JP8056680A2	March 5, 1996	Aug. 25, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8033490A2</u>	Feb. 6, 1996	March 7, 1995	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP8009983A2</u>	Jan. 16, 1996	June 28, 1994	PRODUCTION OF TAXANE-TYPE DITERPENE
	<u>JP7308197A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7308196A2</u>	Nov. 28, 1995	May 18, 1994	PRODUCTION OF TAXANE TYPE DITERPENE
	<u>JP7135967A2</u>	May 30, 1995	Nov. 15, 1993	PREPARATION OF CULTURED CELL HAVING HIGH PRODUCTIVITY OF TAXANE-TYPE DITERPENE
	JP2967034B2	Oct. 25, 1999		
23	EP1063300A3	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
E.	EP1063300A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
23	<u>EP1063299A3</u>	Jan. 2, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
22	EP1063299A2	Dec. 27, 2000	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
57	EP1054065B1	July 31, 2002	Nov. 9, 1994	A method of producing a taxane-type diterpene and method of obtaining cultured cells which produce the taxane-type diterpene at a high rate
				A method of producing a taxane-type diterpene and method of obtaining

2	EP10540 1	Nov. 22, 2000	Nov. 9, 1994	cuted d cells which produce the taxane- type diterpene at a high rate		
23	EP0683232B1	Feb. 14, 2001	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD		
	EP0683232A4	Nov. 29, 1995	Nov. 9, 1994			
E3	EP0683232A1	Nov. 22, 1995	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD		
	<u>DE69431135C0</u>	Sept. 5, 2002	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-TYP DITERPEN UND METHODE ZUR GEWINNUNG VON KULTURZELLEN DIE TAXAN-TYP DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN		
	<u>DE69426692T2</u>	June 21, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN		
	DE69426692C0	March 22, 2001	Nov. 9, 1994	METHODE ZUR HERSTELLUNG VON TAXAN-DITERPEN UND METHODE ZUM EINTEN VON KULTURZELLEN, DIE TAXAN-DITERPEN IN HOHEN AUSBEUTEN HERSTELLEN		
	<u>CN1251391A</u>	April 26, 2000	June 30, 1999	METHOD FOR OBTAINING HIGH- PRODUCTIVE CULTURE CELLS OF TAXIANES DITERPENE		
	CN1248630A	March 29, 2000	June 30, 1999	PROCESSF OR PRODUCING TAXUS ALKANE DITERPENE		
	CN1248629A	March 29, 2000	June 30, 1999	PROCESS FOR PRODUCING TAXUS ALKANE DITERPENE		
	CN1119028A	March 20, 1996		PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD		
	CN1083012B	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXANES DITERPENE		
	CN1083011B	April 17, 2002	June 30, 1999	METHOD FOR OBTAINING HIGH- PRODUCTION CULTURE CELLS OF TAXANES DITERPENE		
	CN1083010B	April 17, 2002	June 30, 1999	PROCESS FOR PRODUCING TAXUES ALKANE DITERPENE		
	CN1058054B	Nov. 1, 2000	Nov. 9, 1994	PROCESS FOR PRODUCING TAXANE DITERPENE AND METHOD OF HARVESTING CULTRED CELL CAPABLE OF PRODUCING TAXANE DITERPENE IN HIGH YIELD		
	CA2153986AA	May 26, 1995	Nov. 9, 1994	A METHOD OF PRODUCING A TAXANE-TYPE DITERPENE AND A METHOD OF OBTAINING CULTURED CELLS WHICH PRODUCE THE TAXANE-TYPE DITERPENE AT A HIGH RATE		
40	40 family members shown above					